

**LANCASHIRE TESTING SERVICES LIMITED**

Lyon Road Industrial Estate : Kearsley : Bolton

Lancashire : BL4 8NB

Tel: +44 (0) 1204 792858

Email: enquiries@ltslab.co.uk

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**TEST CERTIFICATE**

|                 |  |  |                    |
|-----------------|--|--|--------------------|
| <b>CLIENT:</b>  | Agua Fabrics Ltd<br>Hyde House<br>The Hyde<br>London<br>NW9 6LH<br>- | <b>Certificate Number:</b>                       | <b>UK2301462-1</b> |
| <b>Contact:</b> | Suzanne Ralton   | <b>Date Received:</b>                            | 24/08/2023         |
| <b>Tel:</b>     | 020820500050   | <b>Date Issued:</b>                              | 29/08/2023         |
| <b>Email:</b>   | suzanne@aguafabrics.com  | <b>Issue Number:</b>                             | <b>1</b>           |
|                 |  | Changes made from previous issue (if applicable) |                    |

**SAMPLE IDENTIFICATION**

The information in this section is provided by the client and Lancashire Testing Services Ltd assumes no responsibility or liability for its accuracy.

|                         |                |
|-------------------------|----------------|
| Sample Name / Reference | Eden           |
| Additional Names:       | -              |
| Batch Ref/Number:       | 343 EDEN       |
| Order Number:           | -              |
| Colour:                 | -              |
| Fabric Composition:     | 100% Polyester |
| Customer:               | -              |

**SPECIFICATION****BS7176:2007 + A1:2011 Medium Hazard****TEST METHOD**

|                |   |
|----------------|---|
| Flammability:  | BS EN 1021-1:2006: Ignition source smouldering cigarette<br>BS EN 1021-2:2006: Ignition source match flame equivalent<br>BS5852:2006 Crib Ignition Source 5 |
| Pre-treatment: | BS5852:2006 Annex E - Water soaking procedure Line Dried during day at ambient  |

**Conclusion****HAZARD CATEGORY TESTED TO: MEDIUM HAZARD****The sample tested complies with the flammability requirements of BS7176:2007 + A1:2011 for the hazard category stated above taking into account uncertainty of measurement****HAZARD CATEGORY FLAMMABILITY****CRITERIA MET: MEDIUM HAZARD**Uncertainty of Measurement:  $\pm 1$  second - timing measurements,  $\pm 1$ mm - dimensional measurements**Comments:**

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**TEST CERTIFICATE****Test Results:-****BS EN 1021-1:2006: Smouldering Cigarette Source****Assessment of the ignitability of upholstered furniture**

"The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use."

|  |   |                |                     |              |                       |
|--|---|----------------|---------------------|--------------|-----------------------|
| Sample Code  | UK2301462 -1  |                |                     |              |                       |
| Sample Name / Reference  | Eden  |                |                     |              |                       |
| Client   | Agua Fabrics Ltd  |                |                     |              |                       |
| Date of test   | 29/08/2023  |                |                     |              |                       |
| Pre-Treatment  | BS5852:2006 Annex E - Water soaking procedure<br>Line Dried during day at ambient temperature |                |                     |              |                       |
| Filling Type   | Carpenter/RX36110 Combustion Modified Foam Density 34-36kg/m <sup>3</sup> /105-115N           |                |                     |              |                       |
| Size of test rig   | Small: Back - 450 x 300 ± 2mm + Seat - 450 x 150 ± 2mm  |                |                     |              |                       |
| Test Conditions  | Period h  | Temperature °C | Relative humidity % | Air Flow m/s | Volume m <sup>3</sup> |
| Conditioning of test specimens   | ≥24   | 23±2           | 50±5                | ≤0.2         | -                     |
| Testing conditions   | -   | 10-30          | 15-80               | 0.04         | ≥6                    |
| Testing Source   | Smouldering Cigarette Source  |                |                     |              |                       |
| Testing time limit   | 60 minutes after placement of smouldering cigarette.  |                |                     |              |                       |
|  |   | Test 1         | Test 2              |              |                       |
| Time for cigarette to smoulder to completion (min:sec)   |   | 21.36          | 15.28               |              |                       |
| 3.1a Escalating combustion behaviour observed so that it was unsafe to continue the test and active extinction was necessary                       |   | NO             | NO                  |              |                       |
| 3.1b Smouldering which largely consumed the test assembly within the test period   |   | NO             | NO                  |              |                       |
| 3.1c Smouldering to the extremities of the specimen, upper or lower margins, either side or to its full thickness, within the duration of the test |   | NO             | NO                  |              |                       |
| 3.1d Smouldering after one hour from the beginning of the test   |   | NO             | NO                  |              |                       |
| 3.1e On final examination, evidence of active smouldering  |   | NO             | NO                  |              |                       |
| 3.2 Occurrence of flames initiated by a smouldering source   |   | nO             | nO                  |              |                       |
| <b>Test Result:</b>  |   | <b>PASS</b>    | <b>PASS</b>         |              |                       |

|                |                                     |             |
|----------------|-------------------------------------|-------------|
| <b>RESULT:</b> | <b>SMOULDERING CIGARETTE SOURCE</b> | <b>PASS</b> |
|----------------|-------------------------------------|-------------|

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**TEST CERTIFICATE**

|  |   |                |                     |              |                       |
|--|---|----------------|---------------------|--------------|-----------------------|
| <b>Test Results:-</b>  |   |                |                     |              |                       |
| <b>BS EN 1021-2:2006: Butane Source 1</b>  |   |                |                     |              |                       |
| <b>Assessment of the ignitability of upholstered furniture</b>   |   |                |                     |              |                       |
| <i>"The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use."</i> |   |                |                     |              |                       |
| Sample Code  | UK2301462 -1  |                |                     |              |                       |
| Sample Name / Reference  | Eden  |                |                     |              |                       |
| Client   | Agua Fabrics Ltd  |                |                     |              |                       |
| Date of test   | 29/08/2023  |                |                     |              |                       |
| Pre-Treatment  | BS5852:2006 Annex E - Water soaking procedure<br>Line Dried during day at ambient temperature |                |                     |              |                       |
| Filling Type   | Carpenter/RX36110 Combustion Modified Foam Density 34-36kg/m <sup>3</sup> /105-115N           |                |                     |              |                       |
| Size of test rig   | Small: Back - 450 x 300 ± 2mm + Seat - 450 x 150 ± 2mm  |                |                     |              |                       |
| Test Conditions  | -   | Temperature °C | Relative humidity % | Air Flow m/s | Volume m <sup>3</sup> |
| Conditioning of test specimens   | ≥24   | 23±2           | 50±20               | ≤0.2         | -                     |
| Testing conditions   | -   | 10-30          | 15-80               | 0.04         | ≥6                    |
| Testing Source   | Butane Flame Ignition Source 1  |                |                     |              |                       |
| Testing time limit   | 2 minutes after removal of burner tube (120 seconds)  |                |                     |              |                       |
|  |   | Test 1         | Test 2              | Test 3       |                       |
| Time for flames out (sec)  |   | 0              | 1                   | 2            |                       |
| 3.1a/3.2a Escalating combustion behaviour observed so that it was unsafe to continue the test and active extinction was necessary  |   | NO             | NO                  | NO           |                       |
| 3.1b Smouldering which largely consumed the test assembly within the test period   |   | NO             | NO                  | NO           |                       |
| 3.1c Smouldering to the extremities of the specimen, upper or lower margins, either side or to its full thickness, within the duration of the test   |   | NO             | NO                  | NO           |                       |
| 3.1d Smouldering after one hour from the beginning of the test   |   | NO             | NO                  | NO           |                       |
| 3.1e On final examination, evidence of active smouldering  |   | NO             | NO                  | NO           |                       |
| 3.2b Burning which largely consumed the test assembly within the test period   |   | NO             | NO                  | NO           |                       |
| 3.2c Flame Front reached the lower margins, either side or to its full thickness, within the duration of the test  |   | NO             | NO                  | NO           |                       |
| 3.2d flaming continued for more than 120 seconds after removal of the burner tube  |   | NO             | NO                  | NO           |                       |
| <b>Test Result:</b>  |   | <b>PASS</b>    | <b>PASS</b>         | <b>PASS</b>  |                       |
| <b>RESULT:</b>   | <b>BUTANE IGNITION SOURCE 1</b>   |                |                     | <b>PASS</b>  |                       |



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| <b>Test Results:-</b>  |   |                |                     |              |                       |
|--|---|----------------|---------------------|--------------|-----------------------|
| <b>BS5852:2006 Clause 11 - Crib Ignition Source 5</b>  |   |                |                     |              |                       |
| <b>Methods of test for the ignitability of upholstered seating by smouldering and flaming ignition</b>   |   |                |                     |              |                       |
| <i>"The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use."</i> |   |                |                     |              |                       |
| Sample Code  | UK2301462 -1  |                |                     |              |                       |
| Sample Name / Reference  | Eden  |                |                     |              |                       |
| Client   | Agua Fabrics Ltd  |                |                     |              |                       |
| Date of test   | 29/08/2023  |                |                     |              |                       |
| Pre-Treatment  | Water Soak to BS5852:2006 Annex E<br>Line Dried during day at ambient temperature   |                |                     |              |                       |
| Filling Type   | Carpenter/RX36110 Combustion Modified Foam Density 34-36kg/m <sup>3</sup> /105-115N |                |                     |              |                       |
| Size of test rig   | Small: Back - 450 x 300 ± 2mm + Seat - 450 x 150 ± 2mm                              |                |                     |              |                       |
| Test Conditions  | Period h  | Temperature °C | Relative humidity % | Air Flow m/s | Volume m <sup>3</sup> |
| Conditioning of test specimens   | ≥24   | 23±2           | 50±20               | -            | -                     |
| Testing conditions   | -   | 10-30          | 15-80               | ≤0.2         | ≥6                    |
| Testing Source   | Crib Ignition Source 5  |                |                     |              |                       |
| Testing time limit   | 10 minutes after ignition of the crib   |                |                     |              |                       |
|  |   |                | Test 1              | Test 2       |                       |
| Time for cessation of flaming (min.sec)  |   |                | 3.36                | 3.14         |                       |
| Did the composite continue flaming beyond 10 minutes after the ignition of the crib?   |   |                | NO                  | NO           |                       |
| Did the composite produce externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib?   |   |                | NO                  | NO           |                       |
| Did the composite display escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction?  |   |                | NO                  | NO           |                       |
| Did the composite smoulder or burn until it is essentially consumed within the duration of the test  |   |                | NO                  | NO           |                       |
| Did the flame frony reach the lower margin, either side or pass through the full thickness of the specimen within the duration of the test?  |   |                | NO                  | NO           |                       |
| On final examination did the composite show evidence of charring other than discoloration, more the 100mm in any direction apart from upwards from the nearest part of the original position of the source   |   |                | NO                  | NO           |                       |
| <b>Test Result:</b>  |   |                | <b>PASS</b>         | <b>PASS</b>  |                       |

|                |                               |             |
|----------------|-------------------------------|-------------|
| <b>RESULT:</b> | <b>CRIB IGNITION SOURCE 5</b> | <b>PASS</b> |
|----------------|-------------------------------|-------------|

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**Certificate Number:** UK2301462-1

**Date of Issue:** 29/08/2023

|   |   |  |   |
|---|---|--|---|
|   |   |  |   |
| <b>Craig Allardice</b><br>Laboratory Technician | <b>Tony Alcock</b><br>Laboratory Technician | <b>John Marsh</b><br>Laboratory Supervisor | <b>Peter Collings</b><br>Operations Manager |

**Decision Rule:**

Lancashire Testing Services have measurement uncertainties for all test standards (available on request) and have applied these measurements to the test result.

The specific level of risk is < 2.5% as stated in ILAC-G8:09/2019. Unless otherwise indicated L.T.S will apply this rule to all measurements reported.

If the measurement result plus/minus the expanded uncertainty with a 95 % coverage probability overlaps the limit, it is not possible to state compliance or non-compliance. The measurement result and the expanded uncertainty with a 95 % coverage probability will then be reported. The report will include the actual value with the uncertainty range.

Lancashire Testing Services Ltd have conducted thorough analysis of the uncertainty of all measurements carried out in the application of the standard or standards detailed in this report. Where possible any associated uncertainty of measurements have been accounted for in the working instructions, so that they have no impact on the reporting of the final result. In instances where uncertainty of measurements can only be taken into account after the test has been conducted, these uncertainty values have been stated on this report. The stated uncertainty of measurement has also been taken into account in the final reporting of the overall result.

Information provided about a customer, from a source other than the customer, shall only be shared with the customer. The provider of the information shall remain confidential to the laboratory unless agreed by the source of the information.

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